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3 PROJECTILE LAUNCH ASSEMBLY AND METHOD

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5 ABSTRACT OF THE DISCLOSURE

6 A projectile launch assembly includes a launch tube having
7 distal and proximal ends and an inwardly extending dimple
8 structure therebetween, the proximal end being configured to
9 receive a firearm muzzle, a receiver disposed on the distal end of
10 the launch tube and having connector structure at a distal end
11 thereof for connection to a projectile, an energy absorbing plug
12 disposed in the launch tube and having a proximal end portion
13 adjacent the dimple and a body portion extending distally, and an
14 energy transfer piston disposed in the launch tube and having a
15 proximal end configured complementarily to the plug and having a
16 distal end configured complementarily to a proximal end of the
17 receiver. A bullet leaving the firearm muzzle is absorbed by the
18 plug which is thereby moved with the piston distally in the tube,
19 the piston engaging the receiver to propel the launch assembly and
20 projectile from the firearm muzzle.